

ZAKATISTOV, N.

Swine

Possible further decreases in production cost in state farm stock raising, Min. Ind.
24, No. 1, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Unclassified.

GOVORKOV, V.G.; ZAKATOV, A.F.; REGEL', V.R.

Recorder for the photoregistration of small currents. Prib.i
tekhn.eksp. no.1:138-139 Ja-F '60. (MIRA 13:6)

I. Institut kristallografii AN SSSR.
(Photoelectric measurements)

S/120/60/000/01/044/051

E192/E382

AUTHORS: Govorkov, V.G., Zakatov, A.F. and Regel', V.R.TITLE: A Recording Equipment for the Photographic Measurement
of Low CurrentsPERIODICAL: Pribory i tekhnika eksperimenta, 1960, Nr 1,
pp 138 - 139 (USSR)

ABSTRACT: The recording equipment, type ZU-1, for the measurement
of currents in the range 10^{-9} to 10^{-6} A was developed
and constructed at the Institute of Crystallography of
the Ac.Sc., USSR. The operation of ZU-1 is based on the
principle of photo-electric measurement of the light
reflected from the mirror of a galvanometer. The optical
system of the device is illustrated in Figure 3; this
consists of: 1 - a light source; 2 - a condenser lens;
3 - a calibrated scale; 4 - an objective lens;
5 - a galvanometer mirror; 6 - a prism; 7 - a
photographic plate; 8 - a correcting lens; 9 - a
mirror; 10 - a screen; 11 - a slot; 12 - a
diaphragm; 13 - a cylindrical lens. The intensity of
the light falling onto the photo-sensitive layer is 

Card1/2

A Recording Equipment for the Photographic Measurement of Low Currents
S/120/60/000/01/044/051
E192/E382
controlled either by changing the diaphragm or by means
of an auto-transformer. The equipment is used for the
recording of the photo-currents produced by double
refraction (Ref 2), photo-electric-optical dynamometer
(Refs 1, 4) and other purposes. The authors thank
I.N. Zhokhov and I.N. Tsigler for participation in the
development of the equipment.
There are 3 figures and 4 Soviet references.

ASSOCIATION: Institut kristallografi AN SSSR (Institute of
Crystallography of the Ac.Sc., USSR)

SUBMITTED: January 8, 1959

(V)

Card 2/2

REGEV', V.R.; GOVORKOV, V.G.; ZAKATOV, A.P.

Apparatus for mechanical tests of refractory materials. Sov.lab.
26 no.2:243-245 '60.
(MIR, 13:5)

1. Institut kristallografii Akademii nauk SSSR.
(Refractory materials--Testing)

L 20386-66 EMT(l)/ETC(f)/EPF(n)-2/E-C(n) IJP(s) AT
ACC NR: AT6001551 SOURCE CODE: UR/3136/65/000/912/0001/0008

AUTHOR: Blinov, F. I.; Gavrilov, B. I.; Zatnayev, L. P.; Cherenykh, P. A.

ORG: Institute of Atomic Energy im. I. V. Kurchatov (Institut atomnoy energii)

TITLE: Heating of electrons in the TN-1 installation

SOURCE: Moscow. Institut atomnoy energii. Doklady, IAE-912, 1965. Nagrev elektronov v ustroystvye TN-1, 1-8

TOPIC TAGS: plasma heating, electron temperature, plasma injection, magnetohydrodynamics, plasma wave propagation, plasma discharge, x ray emission/ TN-1

ABSTRACT: The authors describe apparatus TN-1 (Fig. 1), designed for heating the electronic component of a plasma by means of a high frequency shock circuit. The quasistatic field reached a maximum within 5.0 msec, after which it dropped off with a time constant of 20 msec. The mirror ratio was 2, and the maximum field in the center of the trap was 8 koe. A single-turn loop with frequency 3.5 Mcs with a discharge of 3×10^{-8} F capacitor at a voltage of 120 kv, produced a field of 900 oe. The plasma was injected in traps by means of a coaxial injector. The plasma density could be varied from 2×10^{13} to 10^{11} cm⁻³ by varying the injector voltage. The heating was investigated in the electron density region 10^{12} - 10^{13} cm⁻³. The tests have shown that a radial magnetohydrodynamic wave propagated in

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I. 20386-66

ACC NR: A16001561

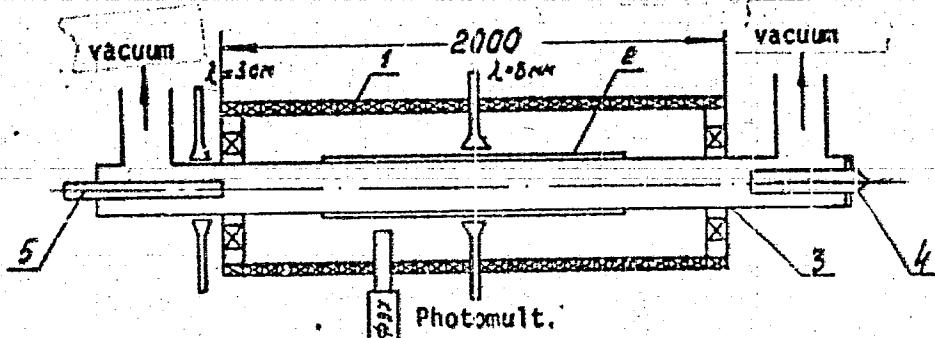


Fig. 1. Diagram of TN-1 installation. 1 - Solenoid, 2 - high frequency shock circuit, 3 - vacuum glass chamber, 4 - plasma injector, 5 - grid probe or end-window x-ray detector.

the plasma, and that the wave front becomes steeper upon heating. The electron current function relative to the longitudinal energy disclose the presence of ionization reactions. A beam current with average energy of 10-15 eV and a

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ACG HK: 電子簽名

secondary group (25%) with energy of the order of 1 kev. Discharge of the plasma in the injector gave rise to emission of x rays of energy 20

Cord 3/3

L 21556-66 EWT(1)/EWO(2)/EPF(n)-2 LSP(c) AT
470877

Советская наука, 1966, № 6, 255-258

Prilozheniya, v. 3, no. 6, 1966, 255-258

TOPIC TAGS: magnetic mirror, plasma containment, plasma heating, magnetic trap, plasma radiation, ~~electron beam~~

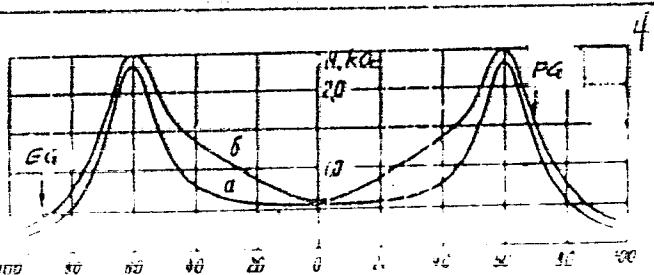
ABSTRACT: This is a continuation of earlier experiments on heating of a plasma by an electron beam in a mirror trap (ZhETF Pis'ma v. 2, 426, 1965), aimed at showing that heating and containment of the plasma depend strongly on the distribution of the magnetic field along the trap axis. The experiment was carried out with the earlier installation, which made it possible to operate with two different configurations of the magnetic field (Fig. 1). The mirror ratio and the field in the center remained unchanged in both cases. The plasma initial density was 10^{12} cm^{-3} . A pulsed beam of electrons with current strength 1 A, energy 10 keV, and duration 50 μsec was injected into this plasma. The heating and decay of the plasma were investigated by measuring the time variation of the energy content (nT) and of the density n . On going over from a field configuration with local mirrors (a) to a configuration with extended mirrors (b) the maximum value of nT increases by a factor 1.5. The value of nT of the

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L 21556-66

ACC NR: AP6098752

Fig. 1. Distribution of the magnetic field of the trap. The arrows indicate the locations of the guns: electron (EG) and plasma (PG).



hot electrons was three times larger in the field configuration with extended mirrors than in the configuration with the local mirrors, and the decay time was 20 and 2 μ sec in the two cases, respectively. The time variation of the electron density was similar to that of nT. The prolonged containment of hot electrons in a trap with extended mirrors was evidenced also by the x-ray bremsstrahlung, which is observed for 100 msec. It is therefore concluded that the heating and containment of the plasma by a pulsed electron beam increase on going from a mirror trap with local mirrors to a mirror trap with extended mirrors. This may be due not only to the more effective transfer of energy from the beam to the plasma, but also to improvement in the containment of the hot electrons in the field with extended mirrors. At the same time, the authors would like to thank V. V. Slobatin for useful discussions and also to A. N. Andronikova and J. M. Fuznetsova for furnishing the cathodes. The work was done in figures.

SUB CODE: 20/ SUBM DATE: 06 Feb66/ ORIG REF: C01

Card 2/2 BLC

L 11950-66 EMT(1)/ETC(F)/EPE(n)-2/n/1(m) TJP(c) AT SOURCE CODE: UN/0386/61/002/009/0426/0430
ACC NR: A16000740

AUTHOR: Blinov, P. I.; Zakarov, L. P.; Plakhov, A. G.; Chikin, N. V.; Sharpen, V. V.

ORG: none

TITLE: Influence of the mirror ratio on plasma heating by an electron beam in a "probkotron"

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Plazma v redaktsiyu. Prilozheniya, v. 2, no. 9, 1965, 426-430

TOPIC TAGS: magnetic mirror machine, plasma interaction, plasma heating, ionized plasma, plasma electron temperature, electron gun, plasma injector

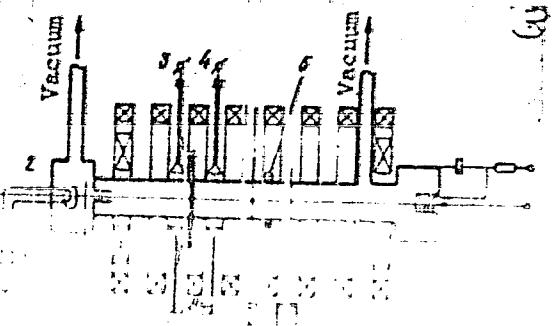
ABSTRACT: The authors investigated the interaction between an electron beam and a ready-made highly ionized plasma. The apparatus (Fig. 1) comprises a trap with ^{fig-55} mirrors. The electron gun is located on the trap axis behind the mirrors in one end and the plasma injector is located on the other end. The electron gun operates in a pulsed mode. The square-wave voltage pulse is of 450 μ sec duration and 9 KV amplitude, the pulse current being 5 a. The plasma and the electron beam are injected into the trap simultaneously. The residual pressure in the chamber is 10^{-5} mm Hg. The electron density was measured with a millimeter wave interferometer. The electron temperature (T_e , plasma temperature) was determined from the diamagnetic effect. The bremsstrahlung was registered by photomultiplier with NaI(Tl) crystals. When the plasma and the electron beam are simultaneously injected in the plasma, the concentration does not change but the energy released by the plasma increases strongly. The presence of

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L 11950-66

ACC NR: AP6000740

Fig. 1. Diagram of setup. 1 - Plasma injector, 2 - electron gun, 3, 4 - microwave source, 5 - diamagnetic probe, 6, 7 - electron-optical and spectral apparatus, 8 - bremsstrahlung register.



"hot" electrons in the trap is evidenced by the prolonged, intense, and hard bremsstrahlung. The efficiency with which the plasma electrons are heated by the beam depends on the mirror ratio. As the mirror ratio is varied from 1.0 to 4, the plasma pressure increases tensfold. The plasma lifetime in the trap increases. A group of "hot" electrons, with a prolonged confinement time and with density close to 10^{10} cm^{-3} appears. Accordingly, the energy lost by the electron beam to plasma heating increases from fractions of one percent to 3.5%, and during the initial stage of the heating (the first 30 μsec) the loss reaches 10%. The influence of the mirror ratio on the heating of plasma with direct current was observed also in experiments of M. V.

21-44155

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L 11950-66

ACC NR: AEG000740

My 55
Bobukin et al. Authors are grateful to Ye. K. Zavolokiy for continuous interest and
valuable advice. Orig. art. has: 3 figures.

SUB CODE: 20/ SUBM DATE: 09Sep65/ ORIG REF: 005/ OTH REF: 002

Card 3/3

L 11885-66 EWT(1)/ETC(F)/EPF(n)-2/EWC(m) IJP(c) AT
ACC NR: AP5028024

SOURCE CODE: UR/0386/65/002/008/0398/0402

AUTHOR: Blinov, P. I.; Gavrilov, B. I.; Zakatov, L. P.; Cherenykh, P. A.

ORG: none

TITLE: Electron heating in the TN-1 installation

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu.
Prilozheniya, v. 2, no. 8, 1965, 398-402

TOPIC TAGS: plasma heating, plasma injection, plasma electron temperature, plasma acceleration, microwave plasma/ TN-1

ABSTRACT: The authors discuss results obtained with the TN-1 installation (Fig. 1), which was constructed to heat the electronic component of a plasma by means of a high-frequency shock circuit. The quasistatic field H_0 reached a maximum within 5 μ sec, after which it decreased with a 20 msec time constant. The mirror ratio was 2, the maximum value of the field H_0 in the center of the trap was 6 koe. The plasma was injected in the trap by a coaxial injector with electrodes made of deuterium-impregnated titanium. By varying the injector voltage it is possible to vary the plasma density from $n_e > 2 \times 10^{13} \text{ cm}^{-3}$ to $n_e < 10^{11} \text{ cm}^{-3}$. A single-turn loop with frequency $v = 3.5$ Mc at a voltage $u_c = 120$ kv on a capacitor $C_c = 3 \times 10^{-3}$ F produced a field of $H = 900$ oe. By varying the time interval between the operation of the high-frequency loop and the application of the magnetic field, it was possible to study the heating of the electrons at different H/H_0 . It was expected that the electrons with $n_e = 2 \times 10^{12} \text{ cm}^{-3}$ would be heated to $T_e = 5$ kev, and that further adiabatic compression

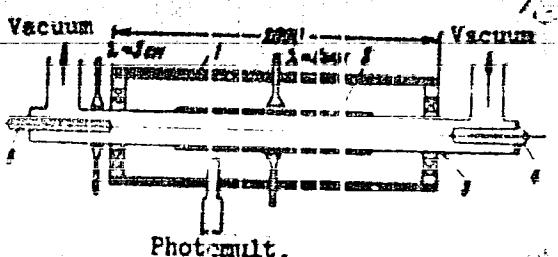
Card 1/2

L 11885-66

ACC NR: AP5028024

would raise the temperature to ~30 kev. The experiment has shown that the cold plasma filling the trap chamber decayed as a result of heating with a time constant $\tau \approx 3\mu$ usec. Not more than 10% of the high frequency field energy goes into plasma heating, and the authors' data have so far not confirmed the conclusion that turbulent heating of a plasma by means of a shock circuit is highly effective. The x-rays of energy ~20 kev emitted from the chamber after the closing of the circuit are due to the presence of an accelerating mechanism and do not prove the existence of high electron temperatures. Authors thank Ye. K. Za. voyskiy for suggesting the topic and interest in the work, and L. I. Iliaikov, G. V. Skalin, A. V. Gordiyev, and L. V. Koreblev for useful discussions.

*Fig. 1. Diagram of TN-1 installation.
1 - Solenoid, 2 - high-frequency shock circuit, 3 - vacuum glass chamber, 4 - plasma injector, 5 - grid probe or x-ray detector.*



* figures

SUB CODE: 80/ SUM DATE: 07Sep65/ ORIG REPT: 007

80
Card 2/2

L 2224-56 EWT(1)/EWT(n)/ETC/EFT(n)-2/ENG(n)/EPA(w)-2/EWA(n)-2 IJP(c) AT
ACCESSION NR: AP5023761 UR/0089/65/019/003/0233/0238
533.9 62

AUTHOR: Blinov, P. I.; Zakatov, L. P. 44,55

TITLE: Collective interactions of "escaping" electrons with plasma in the S-1 stellarator 59
21,44,55

SOURCE: Atomnaya energiya, v. 19, no. 3, 1965, 233-238

TOPIC TAGS: plasma electron oscillation, radio emission, plasma electron temperature,
x ray emission, plasma density

ABSTRACT: Collective interactions of "escaping" electrons with the plasma in the S-1 stellarator during ohmic heating and the associated RF radiation were investigated. It is shown that in a racetrack device such as the stellarator, a considerable number of escaping electrons are present (about 10^{-3} of the total number of electrons in the plasma). The deceleration of the escaping electrons is accompanied by the development of electrostatic oscillations and the release of powerful RF radiation which is nearly polarized along the direction of the magnetic field and whose frequency is close to the cyclotron frequency. Since the electrostatic oscillations to develop, it is necessary that the

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L 2224-66

ACCESSION NR: AP5023761

number of fast electrons exceed a certain minimum value. "The authors express their appreciation to N. M. Yashin for measurements of the electron temperature." Orig. art. has: 9 figures.

ASSOCIATION: None

SUBMITTED: 18 Nov 64

ENCL: 00

SUB CODE: ME

Card 2/2 PP

BULANOV, Aleksandr Ivanovich; DANILOV, Vladimir Vladimirovich; ZAKATOV,
Petr Sergeyevich; YERMOLOV, Boris Pavlovich[deceased];
PAVLOV, Vitaliy Fedorovich; TROITSKIY, Boris Vladimirovich;
SLOBODCHIKOVA, D.A., red.; VASIL'YEVA, V.I., red. izd-via;
ROMANOVA,V.V., tekhn. red.

[Geodesy]Geodezija. [By]A.I.Bulanov i dr. Pod obshchei red.
D.A.Slobodchikova. Moskva, Izd-vo geodez. lit-ry. Pt.1. 1962
315 p. (MIRA 16:1)

(Geodesy)

ZAKATOV, P.

A course in higher Geodesy; Spherical Geodesy and fundamentals of gravimetry and practical astronomy. 2d ed. corrected and enlarged. J. Jerusalem, published for the National Science Foundation, Washington, D.C. by the Israel Program for Scientific Translations, 1962.

390 p. Diags. Graphs, maps, tables.

Title also in Russian

Translated from the Russian: Kurs vysshey Geodetiki... Moskva, 1953.

ZAKATOV, P.S.

"Course of Higher Geodesy." Thesis for
degree of Dr. Technical Sci. Sub 30 Jun 50
Moscow Inst of Engineers of Geodesy Aerial
Photography and cartography

Summary 71, 4 Sep 52, Dissertations Presented
for Degrees in Science and Engineering in Moscow
in 1950. From Vechernaya Moskva. Jan-Dec. 1950

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963510009-7

ZAKATOV, P.S.

Course in Higher Geodesy, Vol.VII. - Geodezizdat, Moscow (1950),
pp.444-445.

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963510009-7"

ZAKATOV, P.S.

PHASE I

TREASURE ISLAND BIBLIOGRAPHICAL REPORT

AID 375 - I

BOOK

Author: ZAKATOV, P. S.

Full Title: COURSE OF HIGHER GEODESY

Transliterated Title: Kurs vysshykh geodezii

Publishing Data

Originating Agency: None

Publishing House: Publishing House of Geodetical and Cartographical
Literature

Date: 1953 No. pp.: 405

No. of copies: 10,000

Editorial Staff

Editor: None

Tech. Ed.: None

Editor-in-Chief: None

Appraiser: None

Others: Murav'yev, M. S., Director of MIIGAiK (Moscow Institute
of Engineers of Geodesy, Aerial Photographic Survey and Carto-
graphy), and members of the Department of Geodesy: Prof.
Danilov, V. V., Dotsents Durnev, A. I., Bagratuni, G. V.,
Magnitskiy, V. A., and Izotov, A. A.; and of the Department of
Astronomy: Prof. Venttsel', M. K., Dotsents Meshchanskiy, L. B.
and Kuznetsov, A. N., who checked individual parts of the text
and made valuable remarks.

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Kurs vysshey geodezii

AID 375 - I

Text Data

Coverage: The book is a text covering contemporary methods of solution of problems of higher geodesy based on the combined use of data from spheroidal geodesy, practical astronomy and gravimetry. The necessary mathematical derivations are simplified, and a geometrical basis used for the numerous formulae. The sources are predominantly Russian. Included is the information that the values of Bessel's ellipsoid used in previous triangulations were erroneous and Krasovskiy's new method was substituted. The result was the creation of a unique astronomo-geodetic net covering the greater part of the U.S.S.R. with high precision. Triangulation of the first class established more than 70 polygons with 3545 geodetical points and extending to more than 46,000 kilometers. 162 graphs and diagrams and 60 tables illustrate the text.

The text was compared with some English texts (e.g. G. L. Hosmer's Geodesy [1930]) and appears to have developed the mathematical and theoretical parts to a greater extent. Of interest are: Krasovskiy's results in determining the size of the terrestrial ellipsoid, as compared with Bessel's; the many original formulae based on Russian works, and not met in other texts; the fact that practical methods and results always follow immediately after theoretical discussions.

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Kurs vysshey geodezii

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The Table of Contents covers adequately the subject-matter of the book. The items specifically attributed to Russian and Soviet scientists are marked with asterisks (*). Very few references are made to contemporary authors outside of Russia.

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Ch. II Basic Formulae and Correlations on the Surface of the Terrestrial Ellipsoid	13-44
Basic parameters of the terrestrial ellipsoid, their correlations. Parameters of Krasovskiy's ellipsoid(*). System of coordinates. Their connection. Principal and mean radius of curvature of the ellipsoid in a given point. Computation of length of the arc of a meridian, of a parallel, of the area of the survey trapezium. Correlation of the length of a curve of a normal section of an ellipsoid with that of a circle. Approximate formulae for the differences in latitudes, longitudes and azimuths.	

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Ch. III Curves on an Ellipsoid of Rotation
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Ch. IV Solution of Small Spherical and Spheroid Triangles 69-79
General information. Solution of spherical triangles by Legendre's theorem, and by the method of "additaments" [the term used by the author (p. 76) for corrections of the log of the side of the triangle (see Hosmer's Geodesy, p.203)].

Ch. V Computation of Geodetic Latitudes, Longitudes and Azimuths 80-113
General information. Formulae for solution of the direct geodetical problem by the method of an auxiliary point; Krasovskiy's process of derivation of formulae⁽⁶⁾ (pp.82-92). Solution of the direct and inverse geodetic problems by formulae with mean arguments. Review of solutions of the principal gecdetic problem. Final considerations on computing geodetic coordinates. Checking computations.
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Ch. VI Differential Formulae
General information. Differential formulae of the first
and second type.

Ch. VII Gauss's Plane Orthogonal Coordinates 130-184

General information. Gauss's conformal projection of an
ellipsoid on a plane. Basic formulae. Formulae: 1) for the
determination of conformal plane coordinates x and y by the
geodetic coordinates B and L ; 2) for the computation of geo-
detic coordinates by Gauss's coordinates; 3) for the con-
vergence of meridians on a plane; 4) for the calculation of
the scale of the representation; 5) for conversion of dis-
tances on an ellipsoid to distances on a plane in Gauss's
projection; 6) for calculating the corrections in direction
for the curvature of the representation of a geodetic line
on a plane; 7) and tables for calculation of Gauss's plane
orthogonal coordinates, [tables given by F. N. Krasovskiy
and A. A. Izatov (*) (pp. 157-170)]. Transformation of Gauss's
coordinates from one zone to another. Plotting of kilometer
lines on a plane table of a topographical survey. Insertion
of a geographical net into an orthogonal. Final considerations
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coordinates in the USSR geodetic works.

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Ch. VIII Deflections of the Vertical (Plumb Line)
General information. Effect of the deflections of the plumb line on the astronomical latitude and longitude of points and azimuthal directions, on the measured horizontal directions and on azimuthal distances. Study of the geoid figure from astronomical and geodetic data. Calculation of the deflections of the plumb line, caused by topographic relief.

Ch. IX. Gravimetric Method of Determining Deflections of the Plumb Line

212-261

General information. Force of gravity, its acceleration. Force of terrestrial attraction, its potential. Centrifugal force, its potential. Force of gravity, its potential. Level surfaces. Geoid as one of the level surfaces of gravity. Formula of normal distribution of gravity. Systems of determination of altitudes in precise leveling. Methods of determining acceleration of gravity. Gravimeter of M. S. Molodenskiy(*) (p. 233) and astatic(**) (p. 234). Reductions of gravity. Anomalies. Formulae for computations of the deflections of the plumb line. Analysis of these formulae by Soviet scientists(*) (pp.240-241). Calculation of corrections of the effect of anomalies of gravity in the central zone. Allowance of the effect of the annular zones (of a radius up to 1000 km).

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Kurs vysshey geodezii

AID 375 - I
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Calculation of corrections of the effect of anomalies of distant zones and of the transition to the system of geodetic coordinates. Example of calculation of corrections in astronomical coordinates for the deflections of plumb lines. Conception of the method of astromo-gravimetric leveling. Short note on the development of gravimetric work in the U.S.S.R. (**) (pp.259-261).

Ch. X Astronomical Methods of Determination of Geographical Coordinates on the Surface of the Earth 262-353
General information. Systems of coordinates used in astronomy. Correlation of different systems of coordinates. Changes in coordinates due to the daily motion. Transits of celestial bodies through certain principal circles of the celestial sphere. Conception of precision, nutation, proper motions of the stars and their effect upon the coordinates of the bodies. Measurement of time. Correlation of different units of measurement and systems of time computation. Interpolation with hourly changes. General considerations of the astronomical methods of determination of latitudes and longitudes of points and azimuths of directions. Determination of time and latitude by measurements of zenithal distances of celestial bodies, and by observation of pairs of stars at corresponding altitudes. Conception of other

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methods of determining time and latitude. Azimuthal determinations method of F. N. Krasovskiy(*) (pp.323-326). Determination of the longitude of a point. Conception of methods of determination of geographical coordinates of an airplane in flight. Classification of astronomical points, and the basic methods of astronomical determinations adopted in the U.S.S.R. Pulkovo observatory, its role in development and setting of astronomical and geodetic work in the country.

Ch. XI "Degree Measurements"(*) (Measurement of the

Length of an Arc of One Degree)

354-396

Short article on the development of methods of treatment of "degree measurements". Contemporary problems of "degree measurements", ways and methods of solving them, construction of equations. Establishing initial geodetic data. Krasovskiy's ellipsoid of reference.(*) Initial triangulation data in the U.S.S.R. Planning of contemporary "degree measurements" in the U.S.S.R. Conception of the method of grading of the astronomo-geodetic net of the U.S.S.R. Concluding considerations. Short description of the setting and development of astronomo-geodetic work in pre-revolutionary Russia and in the U.S.S.R.

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Kurs vysshey geodezii

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Appendix: Some Reference Mathematical Data

397

1. Series

2. Formulae of Spherical Trigonometry

399

Purpose: A textbook of higher geodesy for students of the IV and V years of the course in aerophotogeodesy of universities.

Facilities: A number of institutions and many names of Russian and Soviet scientists in geodesy, astronomy and gravimetry are mentioned in the text.

No. of Russian and Slavic References: Scattered references in the text and in the footnotes are nearly all Russian (up to 1953).

Available: Library of Congress.

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ZAKATOV, P. S.

The Committee on Stalin Prizes (of the Council of Ministers USSR) in the fields of science and inventions announces that the following scientific works, popular scientific books, and textbooks have been submitted for competition for Stalin Prizes for the years 1952 and 1953. (Sovetskaya Kultura, Moscow, No. 22-40, 20 Feb - 3 Apr 1954)

<u>Name</u>	<u>Title of Work</u>	<u>Nominated by</u>
Zakatov, P. S.	"Course in Advanced Geodesy" (2d edition)	Moscow Institute of of Engineers of Geodesy, Aerial Photography, and Cartography (3)

80: W-30604, 7 July 1954

ZAKATOV, P.S.

YERMOLOV, B.P.; KUTUZOV, M.N.; MURAVIN, M.M.; SAYENKO, D.V., TROITSKIY, B.V.;
ZAKATOV, P.S., professor, doktor tekhnicheskikh nauk, redaktor;
KUDSHEEV, N.L., redaktor; KUZ'MIN, G.M., tekhnicheskiy redaktor

[Geodesy] Geodeszia. Pod obshchey redaktsiei professora doktora
tekhnicheskikh nauk P.S.Zakatova. Moskva, Izd-vo geodesicheskoi
lit-ry. Pt.2. 1954. 283 p. [Microfilm] (MIRA 8:3)
(Geodesy)

YERMLOV, Boris Pavlovich; ZAKATOV, Petr Sergeyevich; KUTUZOV, Mikhail
Nikiforovich; MURAV'EV, Mark Mikhaylovich; SAYENKO, Dmitriy Vasil'-
evich; TROITSKIY, Boris Vladimirovich; BUDSHTEIN, M.L., redaktor;
POVALYAYEV, P.I., redaktor; KUZ'MIN, G.M., tekhnicheskij redaktor

[Geodesy] Geodezija. Pod obshchej red. P.S.Zakatova. Moskva, Izd-
vo geodezicheskoi lit-ry. Pt. 1. 1954. 519 p. (MLRA 8:7)
(Geodesy)

KRASOVSKIY, F.N.; ZAKATOV, P.S., redaktor; SOLOV'YEV, M.D., redaktor;
KUZ'MIN, G.M., tekhnicheskiy redaktor

[Selected works] Izbrannye sochineniya. Pod red. P.S.Zakatova i
M.D.Solov'yeva. Moscow, Izd-vo geodesicheskoi lit-ry, Vol.2.
1956. 219 p. [Microfilm]
(Geodesy)

ZAKATOV, P.S.

PROVOROV, Konstantin Leont'yevich (Novosibirsk); ZAKATOV, P.S., red.;
KHROMCHENKO, F.I., red.izd-va; ROMANOVA, T.V., tekhn.red.

[The construction of continuous networks in triangulation]
O postroenii sploshnykh setei triangulatsii. Moskva, Izd-vo
geodes.lit-ry, 1957. 56 p.
(Triangulation)

ZAKATOV, P.S., doktor tekhnicheskikh nauk.

Improving the training of engineering cadres working in geodesy
and cartography. Geod.i kart.no.7:3-7 J1 '57. (NIKA 10:10)
(Geodesy) (Cartography)

ZAKATOV, P. S.

AUTHOR: None Given. 6-12-14/14

TITLE: Chronicle (Khronika).

PERIODICAL: Geodeziya i Kartografiya, 1957, Nr 12, pp. 69 - 70 (USSR)

ABSTRACT: On the occasion of the 40 years jubilee of the October-Revolution a scientific technical conference for geodesy, aerial photographs and cartography took place on October 24-28, 1957. It was organized by the Main Office for Geodesy and Cartography of the Home Office of the USSR, the Military-Topographical Office and the Institute for Engineers of Geodesy, Air Survey and Cartography, Moscow. More than 500 experts participated in it. The following lectures were held in the plenary meetings: A. N. Baranov, Chief of the Main Office for Geodesy and Cartography, on "Soviet Geodesy, air phototopography and cartography during the past 40 years." A. S. Nikolshev, Chief-Substitute of the Military-Topographical Office, on "The part played by geodesy and the safeguarding of the military power of the USSR". G. V. Romanovskiy, Doctor of Technical Sciences, on "The results and the prospects of the development of air photography in the USSR". P. S. Zakatov, Doctor of Technical Sciences, on "The state and the fundamental tasks of geodetical education in the USSR". N. S. Podobedov, Candidate of Technical Sciences, on "Modern

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Chronicle.

6-12-14/14

topographic maps, fundamental tasks and ways of their further perfection". Yu. D. Bulanzhe, Doctor of Physico-Mathematical Sciences, on "The Participation of the USSR in the performance of the International Geophysical Year". Lectures held in the section for geodesy: V. A. Velichko, Candidate of Technical Sciences, on "The use of light location for the construction of geodetical networks". S. V. Yeliseyev Candidate of Technical Sciences, on "Modern tasks and the state of the construction of geodetical devices". A. I. Durnev, Doctor of Technical Sciences, on "Problems of construction and the evaluation of the accuracy of geodetical networks (angular and linear)". A. N. Kuznetsov, Candidate of Technical Sciences, on "State and prospects of the development of geodetical astronomy". V. I. Shillinger on "The present state and the prospects in the development of devices for an automatic local leveling." Lectures held in the section for aerophotographic geodesy: M.D. Konshin, Doctor of Technical Sciences, on "The determination of the elements of outer orientation in the flight and the methods for evaluating the accuracy of the devices used." A.I. Sher-shen' (deceased), Candidate of Technical Sciences, on "Fundamental tasks for the further development of aerophotographic apparatus". I. D. Kargopolov on "Balance of photogrammetric net-

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Chronicle.

works". L. M. Gol'dman, Candidate of Geographical Sciences, on "problems of the topographic deciphering of aerial photographs". Lectures held in the section for cartography: M. D. Bolov'yev, Doctor of Technical Sciences, on "The Fundamental problems of mathematical cartography". Yu. V. Filippov, Doctor of Technical Sciences, on "Results and prospects for the production of maps and atlases in the USSR". P. K. Koldayev, Candidate of Technical Sciences, on "Ways and methods for the perfection of the plastic representation of reliefs on maps." I. P. Zarutskaya, Candidate of Geographical Sciences, on "The cartographing of natural conditions in the USSR". M.P. Bordyukov, Candidate of Technical Sciences, on "Electron transformers". V. M. Perikov, Candidate of Technical Sciences, on "Photosensitive layers without silver and the transparent bases in cartography". V. A. Merkulov on "Micro-films and the possibility of using them in cartography". In connection with the conference an exhibition on "Soviet geodesy, air phototopography andcartography during the past 40 years" was shown.

AVAILABLE: Library of Congress.

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ZAKAROV, R. S.

Report No.	Poddubny, N. C., Doctor	407-154-282-1
Date	Chronicle (Ukrainka) 1	1958, pp 107-109 (USCSA)
Subject	More than 200 specialists participated in the scientific and technical conference on Geodesy, aerophotography, and cartography held from October 24 to 26, 1958. The following persons spoke at the plenary sessions of the conference: I. S. Barnet, Head of the Soviet Geodesy, Aerophotography, and Cartography over the Past Forty Years; A. S. Shchukayev, Head of the Technical Troops of the Party Guard by Order of the Defense of the USSR; Professor G. V. Bogomolov - in Present State and Prospective Development of Aerophotography in the USSR; Professor P. S. Laktion - The Present and Fundamental Tasks of Geodetic Institutes in the USSR; Doctor M. S. Polyakov - "Modern Topographical Maps and the Russian and Foreign Air Forces of Perfecting the Maps"; I. A. Z. Bulanski, Doctor of Physical and Mathematical Sciences, "Soviet Participation in the International Geophysical Year"; in the section on "The deep reserves open today by the following persons": V. V. Belanov, Candidate of Technical Sciences, reported on "The Use of Light Locations for the Establishment of Geodetic Networks"; S. V. Tchilagov, Doctor, spoke on "Geodetic Work of the Russian Geodetic Institute and Precise Surveying"; Kuznetsov reported on "Geodetic Instruments - Current to Future Development of Kartography"; V. I. Shchukayev spoke on "The Present State and Possibilities for Developments of Terrain Leveling Instruments"; in the section on aerophotographical studies, Professor N. D. Slobin gave a lecture on "The Criteria for Assessing the Precision of the Instruments Used"; Doctor V. I. Zharshen reported on "The Basic Tasks of Further Developing Serial Cameras"; Engineer I. G. Kerepolov spoke on "The Application of Photogrammetric Methods in the Problem of a Candidate of Geophysical Sciences, dealt with the problem of topographical delineation of serial photographs. In the section on cartography Doctor F. A. Cherkashin spoke on "The Problems of Mathematical Cartography"; Professor Yu. V. Sushko and others in the field of "Aerogeodesy" reported on "The Achievements and Prospects in the Field of Aerogeodesy"; Doctor V. S. Mal'kovskiy, Candidate of Technical Sciences, spoke on "The Use and Means for Perfecting the Methods of Aerogeodesy"; Doctor N. P. Myshlyakov, Candidate of Technical Sciences, reported on "Some Aspects of Photoactive Layers and Their Preparation in Cartography"; Doctor B. I. Berdnikov spoke on "The Application of Electrolytic Photographs in Cartography".	

ZAKHAROV, P. S.

SC7/124-58-2-15/22

AUTHOR:	Saburov, A. I., Doctor:
TITLE:	Chronicle (Khronika) III
PERIODICAL:	Izvestiya Vsesoyuznogo nauchno-tekhnicheskogo obshchestva po geodesii i aerofotogrammetrii. 1959, No. 2, pp. 110-111 (222).
ABSTRACT:	This is a report on the deliberations held from April 25 to 26 by the engineers and assistants of the Technical Supervision of Geodesy and Cartography of the Central Administration of the USSR and of the Central Directorate of the MTS (Ministry of the USSR) on the Organization of the Research and Report by the Head of G. Zubakov "On the New Tasks of the GPU With Respect to the Preparation of Topographic and Geodetic Works of Importance to the National Economy." Such as the Analysis of the Accuracy of Measurements in Triangulations of the 2nd and 1st Classes, the Application of Optical Range Finders in Geodetic Work, Use of Ultrasonically Generated Waves in Geodetic Surveys, etc. The results of the Study of Contact and Bearing Points Within the Territory of the USSR. Engineer P. I. Tsvetkov, an Engineer, developed Instruments for Geophotographic Photography. An Engineer D. G. Savchenko: "The Technical Planning of Aerophotographic Surveys." Engineer B. V. Trofimov: "Martingue's Geodetic and Photogrammetric Method." Engineer I. F. Krylova: "Martingue's Method for the Determination of Length and Height Intervals." Engineer S. I. Ulyanov: "On the Overall Preparation of Aerial Photoplates." A. V. Lebedev: "On the Checking of Stereoscopic Photogrammetric Surveys in the AFM-Moscow." Com. General, Director of Technical Planning of the GPU, Professor G. A. Savchenko: "The Use of Elements of Photogrammetry and Approaches in the Preparation of Aerial Surveys." Com. General, Professor G. A. Kruglikov: "Geodetic Measurements Using Sensors on the Drone-Av-Stereograph." V. Ye. Shchegolev: "On the Preparation of Technical Sciences." On Preparing the Photographic Quality of Aerial Photos. Radiotekhnika "Radioelektronika" No. 1, 1959. Com. General, Director of Technical Planning in the Severo-Kavkazskiy AFM, Com. General, Professor G. A. Drachev: "On the Present State of Mechanical Instruction for Geodetic Work." Purposes more than meeting detail with the requirements of the new geodetic-normative legislation (GPU 1957). Directly afterwards followed the lectures (on April 28 the head engineer of the GPU and the collaborator of the KIIGA I. K. (from the Engineering Institute of Geodesy, Cartography, and Surveying) delivered some interesting communications. Professor G. A. Savchenko, Professor of Geodesy (lecture by P. S. Zakharov, Professor of Technical Sciences).

CONT/2/2

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SOV/154-59-3-1/19

AUTHOR: Zakatov, P. S., Professor, Doctor of Technical Sciences

TITLE: Tasks of Geodetic Sciences in the Light of the Decisions of the 21st Congress of the Communist Party of the USSR (Zadachi geodezicheskoy nauki v svete resheniy 21 s"ezza KPSS)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Geodeziya i aerofotos"-yemka, 1959, Nr 3, pp 3 - 8 (USSR)

ABSTRACT: In connection with the decisions adopted by the 21st Congress of the Communist Party of the USSR, the tasks to be fulfilled in the field of geodesy are outlined here. They are: theoretical investigation in the field of geodesy, of higher geodesy, and gravimetry, elaboration of new methods and devices on the basis of the latest achievements in physics, electrotechnics, and electronics, production of photogrammetric apparatus and aerial cameras based on modern technics, elaboration of high-precision measuring methods in the building economy, assembly and operation of engineering constructions, improvement of maps and methods for the compilation of the latter. The demand is made for more accomplished scientific assistants, and Academician A. P. Nesmeyanov is quoted in this connection. It would be of

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Tasks of Geodetic Sciences in the Light of the Decisions Sov/154-59-3-1/19
of the 21st Congress of the Communist Party of the USSR

major importance for research results to reach production centers more quickly. The scattering of scientific brains, insufficient efforts made to fulfill the Plan, laziness of scientific assistants and even of entire chairs with respect to the introduction of resolved measures into production; all these deficiencies are denounced here. Many scientific assistants hold their position for years without delivering a single paper. Others work only until the time they obtain their doctor's degree, and do not publish anything after their graduation any more. The competitions carried out nowadays often degenerated into a pure formality and do not effect the selection of scientific collaborators with practical experience. The situation is not better in the field of planning and coordinating geodetic research work. A coordination system does not even exist. The Geodetic and Cartographic Division of the GTS Ministerstva vysshego obrazovaniya SSSR (Council for Science and Technology of the Ministry of Higher Education of the USSR) does not go beyond controlling the plans of the scientific research activity of the MIIGAiK and NIIGAiK, and even this with respect to major problems only. But also other institutions,

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Tasks of Geodetic Sciences in the Light of the Decisions SOV/154-59-3-1/19
of the 21st Congress of the Communist Party of the USSR

like TsNIIGAiK, NII VTS, MIZ, are concerned with the main problems. The request is made here that an end be made to this state of affairs. Another request calls for a revision of the structure of the institutes to secure an improvement in developing conditions of scientific work; it further calls for a careful preparation of experts, to comply with the specific tasks laid down by the Seven-year Plan.

ASSOCIATION: Moskovskiy institut inzhenerov geodezii, aerofotos"zemki i kartografii (Moscow Institute of Geodetical-, Aerial Surveying-, and Cartographical Engineers)

Card 3/3

3(4)

AUTHORS:

Zakatov, P.S., Barbatuni, G.V., SOV/154-59-6-19/19
Izotov, A.A., Burnev, A.I., Lebedev, N.N.,
Mazmishvili, A.I., Arafonov, V.V.,
Larin, P.I., Kabanov, N.A., Lebedev, G.V.,
Arkunov, K.I., Zlatkin, Ya.Ya., Zlatkin, N.G.,
Romanov, N.G., Kos'kov, B.I., Sedov, N.m.,
Znamerovskiy, A.V., Rykov, N.N., Chermisin, M.S.,
Afanas'yev, V.G., Sokolov, Ya.N., Kirpichnikov, d.V.,
Androsov, R.K., et al.

TITLE: S.A. Matveev (Obituary)

PERIODICAL: Izvestiya vysshikh uchobnykh zavedeniy. Geodeziya i
aerofotos"zemka, 1959, Nr 6, pp 159-160 (USSR) ✓ABSTRACT: Serafim Aleksandrovich Matveev, 56, Docent at the kafedra
vyshey geodezii (Chair of Higher Geodesy) at the MIIGAiK
(Moscow Institute of Geodetic, Aerial Survey, and Cartographic
Engineers), member of the CPSU since 1943, died on September 4,
1959. From 1918 to 1921 he studied at the Astrakhanskiy
tekhnikum vodnogo transporta (Astrakhan' Technical School of
Waterway Communications), and at the same time worked in a
factory as an apprentice. In 1928 he graduated from the

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S.A. Matveyev (Obituary)

SOV/154-59-6-19/19

Moskovskiy mezhevoy institut (Moscow Institute of Land Surveying) and more precisely, from the Department of Geodesy. In 1931, Professor F.N. Krasovskiy called him to the Chair of Higher Geodesy at the MIIGAiK. He participated in the surveys of the towns Bryansk, Minsk, Rostov-na-Donu, Kalinin, and Stalingrad. He was the bearer of two orders "Patriotic War 2nd Class" and 6 medals. After the war he worked for some time in the Soviet Far East as chief geodesist of the research expedition of the MPS (Ministry of Railroads). There is 1 figure.

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CIA-RDP86-00513R001963510009-7

ZAKATOV, P.S., doktor tekhn. nauk prof.

Basic problems in the field of higher geodetic education in the
U.S.S.R. Trudy MIGAIK no.31:15-21 '59. (MIRA 13:3)
(Geodesy--Study and teaching)
(Cartography--Study and teaching)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963510009-7"

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CONFIDENTIAL

1965. Vsesoyuznaya konferentsiya po vertikal'noj izmerenii i kartografii. Vertechnaya i geodetskaya karta

1965. AN SSSR. Institut fiziki zemly i vodoroda. Sovremennoye zemlezherennye i zemnoy kory. Recent crustal movements, no. 2, 1965, 38-46

TOPIC TAGS: geodetic conference, geophysical conference, geodetic leveling, tectonic map

ABSTRACT: Eight requirements are listed as mandatory in running high-precision leveling to be used as control for studying the vertical movements of the earth's crust over large areas. A description is given of the problem facing Soviet geodesists in implementing the resolutions adopted at the 13th Assembly of the International Geophysical and Geodetic Association for compiling a map of the earth's vertical movements covering the European USSR. Resolutions adopted at a conference held independently by the socialist countries of Europe and Asia in 1960

Card 1/2

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ACC NR: AT6011138

on optimum distribution of leveling lines are discussed in connection with the internationally adopted resolutions. Other facets of the proposed work included procedures and instruments (including allowable errors) sizes of figures, datums, and data processing. Proposals are made for the coordination and organization of future research and field work, including the establishment of a single data center to process all measurements and to compile a general map. [ER]

SUB CODE: 08/ SUBM DATE: none

Card 2/280

ZAKATOV, Petr Sergeyevich, prof.; MEROZOV, V.M., prof., retsenzent;
VITMAN, A.I., dots., retsenzent; BAGRATUNI, G.B., red.

[Course in higher geodesy; spheroidal geodesy, theoretical
geodesy, and the elements of gravimetry] Kurs vysshei geo-
dezii; sfesroidicheskaiia geodeziia, teoreticheskaiia geodezii
i osnovy gravimetrii. Izd. 3., dop. i ispr. Moskva, Izd-vo
"Nedra," 1964. 503 p. (MIRA 17:8)

BULANOV, Aleksandr Ivanovich; DANILOV, Vladimir Vladimirovich;
ZAKATOV, Petr Sergeyevich, prof.; YERMOLOV, Boris Pavlovich
[deceased]; PAVLOV, Vitaliy Fedorovich; TROIITSKIY, Boris
Vladimirovich; SLOBODCHIKOV, D.A., red.; VASIL'YEVA, V.I.,
red.izd-va; ROMANOVA, V.V., tekhn.red.

[Geodesy] Geodezija. Moskva, Izd-vo geodesicheskoi lit.-ry.
Pt.1. 1962. 315 p. (MIRA 16:10)
(Geodesy)

ZAKATOV, P.S., prof., doktor tekhn.nauk

F.N. Krasovskii as a scientist and pedagogue. Trudy MIGAIK
no.37:3-10 '59.
(MIRA 15:5)
(Krasovskii, Feodosii Nikolaeovich, 1878-1948)

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963510009-7

BAGRATUNI, Gegam Vagranovich Vagranovich; ZAKATOV, P.S., red.;
SHURYGINA, A.I., red. izd-va; ROMANOVA, V.V., tekhn.red.

[Course in spheroid geodesy] Kurs sfroidicheskoi geodezii.
Moskva, Geodezizdat, 1962. 251 p. (MIRA 15:8)
(Geodesy)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963510009-7"

SUDAKOV, S.G.; ALEKSANDROV, T.F.; BULANOV, A.I.; DURNEV, A.I.;
YELISEYEV, S.V.; ZAKATOV, P.S.; IZOTOV, A.A.; KARLOV, G.M.;
KUZ'MIN, B.S.; KUKUSHKIN, A.D.; KOLUPAYEV, A.P.; KUZLOVA, Ye.A.;
LARIN, B.A.; LARIN, D.A.; LARIN, B.A.; LITVINOV, B.A.; MAZAYEV,
A.V.; PELLINEN, L.P.; PETROV, A.I.; SOLOV'YEV, A.I.; TOMILIN, A.F.;
URALOV, S.S.; USPENSKIY, M.S.; FOMIN, M.P.; SHISHKIN, V.N.; SHCHEGLOV,
A.P.; SUDAKOV, S.G., otv. red.; KOMARKOVA, L.M., red. izd-va; SUNGUROV,
V.S., tekhn. red.

[Instruction concerning the building-up of a state geodetic network
in the U.S.S.R.] Instruktsiya o postroenii gosudarstvennoi geodezi-
cheskoi seti Soiuza SSR; obiazatel'na dlia vsekh vedomstv i uch-
rezhdenii, proizvodящих gosudarstvennye geodesicheskie seti.
Moskva, Izd-vo geodez. lit-ry, 1961. 459 p. (MIRA 15:6)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye geodezii i karto-
grafii.

(Geodesy)

ZAKATOV, P.S., prof., doktor tekhn.nauk

Reorganization of higher education at the Moscow Institute for
Engineers in Geodesy, Aerial Photography, and Cartography based on
the law of the strengthening of ties between school and life and
further development of the system of popular education in the U.S.S.R.
Izv. vys. ucheb. zav.; geod. i aerof. no.4:3-7 '61. (MIRA 15:1)

1. Moskovskiy institut inzhenerov geodezii, aerofotos"yemki i
kartografii.

(Moscow--Surveying--Study and teaching)
(Moscow--Cartography--Study and teaching)

ZAKNAY, P.S.

SAC-60/DO/04/27/01
W/7,8351

ACTION: None given
 TITLE: Chronicle

BIBLIOGRAPHY:

Godardova i Kartogolya, 1960, no. 6, pp. 72-77

First, from May 10-14, 1960 the "International Conference on Geodesy and Geodynamics" was held in Moscow. It was convened by the Presidium of the Central Committee of the Communist Party of the Soviet Union and the Executive Committee of the USSR Academy of Sciences (USSR) and the International Geodetic Society. The first satellite star laboratory, constructed by the Institute of Physics of the Earth of the USSR, took part in this conference. Production organizations took part in this conference: production organizations, research centers, training and construction organizations, educational institutions, and organizations of the Academy of the USSR, Academy of Sciences USSR, Scientific organizations AF SGR (Ministry Department of the

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AS USSR), Akademiia Nauk Ukrainskoy RSR, Gruzinskoy SSR, Litteratury i Knygopisaniya, Litteraturny i Arkhivnicheskoye SSSR, Ministerstvo Vsesoyuznogo Prudnogo i Zemledel'skogo Prostora (Ministry of All-Union and Secondary Special Education of the USSR), Minzhetobor (Ministry of Geodesy and Observation of Natural Resources), Kosmicheskaya Administratsiya, Akademicheskaya Komissiya po Standartam, Vsesoyuznyi Nauchno-Issledovatel'skiy Institut po Geodezii, Kibernetike, Matematicheskym Metodam i Vychislitel'nym Sistemam (State Committee on Automation and Machine Construction of the Council of Ministers USSR), as well as representatives of the Soviet Academy of Sciences (Sovet Akademikov) and the Leningradsky Sovnarkom (Leningrad Sovnarkom) that propose geodetic apparatus. 70 lectures were held. D. B. Monchukovich (Institute of Geodesy, Astronomii i Selenika (Institute of Geodesy, Astronomy of the USSR)) spoke about the "Experience With Determining Some Parameters of the Gravitational Field of the Earth From Observations of the Second U.S.

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Third Artificial Satellite". A. M. Yarotsky (USSR) spoke about "The Determination of the Positional Errors of Geodetic Acceleration of the Point of Entry to Orbit". N. V. Tikhonov spoke about "The Problem of Geodesy in the Development of Space Technology". In addition, the following reports were delivered: "A. I. Kostylev - About Questions of the Record of Information Received from Space Stations"; "A. V. Kostylev - About the Control of Geodesic Measurements from Space Stations"; "P. G. Popov - About the Design of Space Stations"; "V. V. Grishko - About the Determination of the Positional Acceleration of the Point of Entry to Orbit"; "V. M. Sosulin (IMI AS USSR) (1963) about "The Main Results of the Work of the Institute of Mathematics and Cryptology in the Field of Determining Geodetic Acceleration on the Basis of Means of Observation". A. V. Savchenko - About the Determination of Geodetic Acceleration in the System of Reference Points of the Geodetic Network"; "V. V. Slobodchikov - About the Possibility of Determining Geodetic Acceleration on the Basis of Means of Observation". His lecture tolerable errors already published in respect or submitted for publication by some authors. Among these are papers by: D. B. Monchukovich (University of Politehnicheskii Institut (Ustro Politehnicheskii Institut)), A. V. Savchenko (Prestiayi Gourovskoy University), and S. I. Goryainov (Leningrad University).

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International Geophysical Year as one of the main aims of the Conference. University hospitals and medical centres of developing countries will be invited to participate. The Conference will be followed by a Conference of the International Society of Endocrinology, which will be held in the same place at the same time.

Techiques and technology in production were discussed. At the Conference it was stated that the extent of the work planned will be considerably increased within the next seven years. Decisions were taken concerning the following drawbacks to be pointed out: The technical skills are extremely unbalanced; the graphical presentation is not sufficiently accompanied with their explanations in technological observations. There is no sufficiently used table base in graphical representation which is not directionless, insufficiently technical and academic. Scientific researches must be conducted in the direction of the development of the technique of drawing, both of the scientific and technical workers. The Ministry of Education and the Ministry of Higher Education of the USSR. Research stations are due to improve their function for improving the training of technicians. The Conference suggested to convert the existing educational institutions at regular intervals. For improving education and for its extension experience the editorial board of the present periodical was asked to publish a section for theoretical and applied work in technical observations. The participants in the Conference appealed to the workers

of the temporary derivative during development, and
Supplying Service on the Deviations from the original
and the Rule of the Central Committee of the CCCP.

ZAKATOV, P.

PHASE I BOOK EXPLOITATION

SOV/4321
SOV/43-S-31

Moscow. Institut inzhenerov geodezii, aerofotos"yemki i kartografii

Trudy, vyp. 31 (Transactions of the Moscow Institute of Engineering Geodesy,
Aerial Photography, and Cartography no. 31) Moscow, Geodezizdat, 1959.
163 p. Errata slip inserted. 1,000 copies printed.

Editorial Board: A.I. Mazmishvili (Resp. Ed.), V.I. Avgavich (Deputy Resp. Ed.),
G.V. Bagratuni, N.Ya. Bobir, M.N. Volkov, A.I. Durnev, S.V. Yeliseyev,
P.S. Zakatov, G.P. Levchuk, N.I. Modrinskiy, M.D. Solov'yev, B.V. Fefilov, and
P.F. Shokin; Ed. of Publishing House: T.A. Shamarova; Tech. Ed.: V.V. Romanova.

PURPOSE: This collection of articles is intended for specialists in geodesy, cartography, and photogrammetry.

COVERAGE: The book is a collection of 20 papers presented at the MIIGAIK in October 1957 and printed in abbreviated form. The reports presented discuss the current status and the future prospects for development of aerial photography, topographic mapping, geodesy and geodetic astronomy, instrumentation, photogrammetry and photo interpretation, cartography and its associated mathematical and practical problems. No personalities are mentioned. References follow several of the articles.

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Transactions of the Moscow Institute (Cont.)

SOV/4321

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Transactions of the Moscow Institute (Cont.)	SOV/4321
8. Konshin, M.D. Determining the Elements of External Orientation in Flight	57
9. Rusinov, M.M. New Aerial-Photographic Lenses	63
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12. Mikhaylov, V.Ya. Effect of the Photographic Properties of Aerial Photographs on Their Interpretability	83
13. Starostin, F.A. Basic Methods for the Development of Mathematical Cartography	87
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15. Zarutskaya, I.P. Cartographic Mapping Agricultural Areas in the USSR	103

Card 3/4

Transactions of the Moscow Institute (Cont.)	SOV/4321
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20. Solov'yev, M.D. Perspective Projections With Multiple-Image Perspectives	137

AVAILABLE: Library of Congress (QB 275.M63, no. 31, 1959)

Card 4/4

AC/af/sfm
10/21/60

ZAKATOVA, M.S., inzh.

Operation of distributing inlets with series connection. Vod. i
san. tekhn. no.4:10-16 Ap '64 (MIRA 18:1)

SOKOLOV, Ye.Ya., prof.; DMITRIYEV, I.V., inzh.; ZAKATOVA, M.S.

Methods for calculating the variable operation of heat supply to
subscribers. Trudy MEI no.48:133-146 '63. (MIRA 17:6)

ZAKATOVA, M.S., inzh.

Methodology for designing and results of testing two-stage hot
water supplying systems. Elek. sta. 32 no.2:27-35 F '61.
(MIRA 16:7)
(Heating from central stations)
(Electric power plants)

ZAKATALOV, Ye.V., inzh.

Snow removal from switches by means of electric heating. Torf.-
prom. 40 no.5:9-11 '63. (MIRA 16:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut zhelezodorozhного
transporta Ministerstva putey soobshcheniya.
(Railroads, Narrow-gauge—Snow removal and protection)
(Electric heating)

I 43050-66 EWT(m)/T/EWP(t)/ETI LJP(c) JD/WB
ACC NR: AR6014386 (A,N) SOURCE CODE: UK/0137/65/GOR/OLL/1071/1071

AUTHORS: Zheleznyakova, Sh. R.; Zakatova, N. A.; Efier, M. Yu.; Gvar, N. P. 68

TITLE: The behavior of high-temperature and scale-resistant steels and alloys in B
an endothermic atmosphere with different carbon potentials

SOURCE: Ref. zh. Metallurgiya, Abs. 111501

REF SOURCE: Tr. Vses. n.-i. in-ta elektroterm. oborud., vyp. 1, 1965, 224-235

TOPIC TAGS: steel, alloy steel/Kh25N20S2 steel, Kh25 steel
heat resistant steel, endothermic effect, gas corrosion, metal oxidation, corrosion resistance

ABSTRACT: Fourteen types of Cr-, Cr-Ni-, and Fe-Cr-Al steels and alloys were investigated. The endothermic atmosphere had a carbon potential 0.3--0.4% C and 0.8--0.9% C. The experimental temperature was 1050°C, the duration of experiments was 100, 300, 500, 700, and 1000 hours. The furnace pressure was 10--15 mm H₂O. The flow rate was 350 liter/hr. The overall depth of gaseous corrosion was determined in terms of the sum of the surface and intercrystalline corrosion. The oxidation curves are compared with the oxidation in air; the carbon potential of the latter is assumed to be 0% C. All steels and alloys investigated were subject to surface oxidation; many carbonized, and steel Kh25N20S2 showed intercrystalline corrosion. Scale resistance of the investigated materials in an atmosphere of carbon potential 0.3--0.4 % C for short exposure is better and for long exposures worse than in an atmosphere of endogas with a carbon potential of 0.8--0.9 % C. For all exposures

Card 1/2

UDC: 669.15.018.85:620.193

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ACC NR: AR6014386

(for steel Kh25 after 10 000 hr), the scale resistance in endogas is better than in air. Recommendations for the use of the investigated materials for parts and the construction of electrical furnaces are presented. I. Strebkov (translation of abstract)

SUB CODE: 11

Card 2/2

CIA
Preparation of plastic leather from Revertes and synthetic latex. N. D. Zakharov and N. A. Klyuchkin. Kostroma. Obzry. 1987, No. 3, 50-3 (1987). The mech.-phys. properties and the prepn. of plastic leather are described.
A. A. Pudgway
30

ZAKHAROVA, N.D., MIKHAYEVA, YE.YA.

Leather

Method of determining the hardness of leather.
Leg. prom., No. 3, 1952.

Monthly List of Russian Accessions, Library of
Congress, June 1952. Unclassified

1. SINAYUK, D. A.; ZAKATOVA, N. D.; MIKHEYEVA, Ye. Ya.
2. USSR (600)
4. Shoe Industry
7. Role of middlesole in shoes, Leg. prom., 12, No. 11, 1952.

9. Monthly List of Russian Accessions, Library of Congress, February 1953. Unclassified.

ZAKATOVA, N. D.

VOROB'YEVA, A.A., kandidat tekhnicheskikh nauk; ZAKATOVA, N.D., kandidat tekhnicheskikh nauk; ZAV'YALOVA, T.P., retsensent; SMOGLEV, M.Ye., professor, doktor tekhnicheskikh nauk, redaktor.

[Materials for shoe manufacture] Materialovedenie obuvnogo proizvodstva. Moskva, Gos. nauchno-tekhn. izd-vo Ministerstva prioryshlenykh tovarov shirokogo potrebleniia SSSR, 1953. 219 p. (MIRA 7:7)
(Shoe industry)

ZAKATOVA, N.D.; MAKSIMOVA, T.S.

Durability of the attachment of a sole to the shoe made by hot
vulcanization. Leg.prom. 14 no.7:43-45 J1 '54. (KREA 7:7)
(Boots and shoes) (Vulcanization)

ZAKATOVA, N.D., kandidat tekhnicheskikh nauk; MIKHAYLOVA, Ye.Ya.,
kandidat tekhnicheskikh nauk.

Leather homogeneity for shoe tops. Leg.prom.14 no.12:31-34
D 154. (MLRA 8:2)
(Leather---Testing) (Shoe industry)

ZAKATOVA,N.D., kandidat tekhnicheskikh nauk; MIKHETEVA,Ye.Ya., kandidat
tekhnicheskikh nauk.

Effect of leather stiffness on the strength of screw fastening.
Leg. prom. 15 no.6:16-17 Je '55. (KIRIA 8:8)
(Shoe industry)

ZAKATOVA, N.D.

USSR/Chemical Technology - Chemical Products and Their
Application. Leather. Fur. Gelatin. Tanning Agents.
Technical Proteins I-29

Abs Jour : Referat Zhur - Khimiya, No 4, 1957, 14064

Author : Mikheyeva Ye.Ya., Zakatova N.D.
Inst : Central Scientific Research Institute of Leather and
Shoe Industry

Title : Resistance of Russian Leather to Cyclic Mechanical Action

Orig Pub : Nauch.-issled. tr. Tsentr. n.-i. in-ta kozh-obuv.
prom-sti, 1955, 25, 114-123

Abstract : Investigation of the resistance of Russian leather,
chrome-vegetable, chrome-sulfite cellulose-chrome,
chrome-sulfite cellulose-syntan and vegetable extract
tanned, to repeated stretching and flexure. The nature
of changes shown by the samples indicates that on a cy-
clic action there take place two processes; orientation
of structural elements in the direction of tensile

Card 1/2

- 446 -

Card 2/2

- 447 -

44K410011 16 2
MIKHEYEVA, Ye.Ya.; ZAKATOVA, N.D.

Defining water permeability indices in materials used for shoe uppers.
Leg.prom. 17 no.6:23-25 Je '57. (VIL. 10:8)
(Permeability) (Shoe industry)

ZAKATOVA, N.D.

28-58-1-9/34

AUTHORS: Zakatova, N.D., and Gubarev, A.S., Candidates of Technical Sciences, and Khomenkova, N.G., Engineer

TITLE: A New System of Sampling Chrome Leather (Novaya skhema otbora prob khromovykh kozh)

PERIODICAL: Standartizatsiya, 1958, # 1, pp 29-30 (USSR)

ABSTRACT: The article describes a new system of sampling chrome leather, developed by the Tsentral'nyy nauchno-inzhegovatel'skiy institut khozhevenno-obuvnoy promyshlennosti (Central Scientific Research Institute of the Leather-and-Shoe Industry). The new system consists in using a slightly smaller size of samples, as shown in the illustration (Figure 1). Tests at 6 different plants showed, that this system reduces waste and gives a more correct evaluation of smaller hides. The article includes a chart showing test results. A corresponding amendment is suggested for the "GOST 938-45" standard.

There are 2 figures and 1 chart.

Card 1/2

A New System of Sampling Chrome Leather

28-58-1-9/34

ASSOCIATION: Tsentral'nyy nauchno-issledovatel'skiy institut kozhevenno-obuvnoy promyshlennosti (Central Scientific Research Institute of Leather-and-Shoe Industry)

AVAILABLE: Library of Congress

Card 2/2

ZAKATOVA, N.D.; MIKHAYLOV, A.N.; MIKHAYEVA, Ye.Ya.

Determining the resistance of leather subjected to hygrothermal action.

Leg. prom. 18 no.4:30-31 Ap '58. (MIRA 11:4)

(Leather--Testing)

ZAKATOVA, N.D.

ZAKATOVA, N.D., kand. tekhn. nauk; GUBAREV, A.S., kand. tekhn. nauk;
KHOPENKOVA, N.G., inzh.

New system for selecting chrome leather. Standartizatsiya 22 no.1:
29-30 Ja-Y '58. (MIRA 11:2)

1. Tsentral'nyy nauchno-issledovatel'skiy institut kachevenno-
obuvnoy promyshlennosti.
(Leather--Testing)

VOYTSEKHOVSKY, V.L.; SHUKHNINA, N.A.; FEDOROVA, I.M.; ZAKATOVA, N.D.;
CUBAREV, A.S.

Determining the chemical and physicomechanical indices of Russian
leather. Nauch.-issl. trudy TSNIKP no.32:37-71 '60.

(MIRA 15:12)

(Leather--Testing)

VOROB'YEVA, Anna Aleksandrovna, kand. tekhn. nauk; ZAKATOVA, Nina
Dmitriyevna, kand. tekhn.nauk; KEDAKOVA, M.A., ieschenko;
~~KEDAKOVA, M.A.~~, ieschenko;
GRACHEVA, A.V., red.; VINOGRADOVA, G.A., tekhn. red.

[Commercial study of materials used for footwear manufacture]
Materialovedenie obuvnogo proizvodstva. Izd.3., perer. i dop.
Moskva, Gizlegprom, 1963. 274 p. (MIRA 16:9)
(Shoe manufacture—Equipment and supplies)

KOTEL'NIKOV, V.N., kand.tekhn.nauk; CHENTSOVA, E.I., kand.tekhn.nauk;
ZYBII, Yu.P., doktor tekhn.nauk; KOCHETKOVA, T.S.; ZAKITOVA, N.D.
kand.tekhn.nauk; GUBAHEV, A.S., kand.tekhn.nauk; SIEVERJOVA, T.P..
inzh.; VOROB'YEVA, A.A., kand.tekhn.nauk; MIHISKIY, V.I., inzh.;
NISMEVICH, Ye.A., kand.tekhn.nauk; GOL'DSHTEYN, A.V., inzh.;
KALASHNIKOVA, T.A., inzh.; SHUSTOROVICH, M.L., kand.tekhn.nauk;
MOREKHODOV, G.A., inzh.; ZAKHAROV, S.R., retsenzent; BLAGOVESTOV,
B.K., retsenzent; STRONGINA, O.P., retsenzent; SHMIDT, M.I., re-
tsenzent; ZUYEV, V.T., retsenzent; KOSAREV, M.I., retsenzent;
STEPANOV, I.S., retsenzent; RANN, S.N., retsenzent; PEVZNER, B.M.,
retsenzent; VEYNBERG, I.A., retsenzent; TURBIN, A.S., retsenzent;
SMIRNOVA, Ye.V., retsenzent; BUGOSLAVSKAYA, L.A., retsenzent;
GAMOVA, A.S., retsenzent; KHANIN, N.M., retsenzent; MURVANIDZE,
D.S., red.; PLEMYANNIKOV, M.N., red.; GRACHEVA, A.V., red.; MEDVEDEV,
L.Ya., tekhn.red.

[Shoemaker's handbook] Spravochnik obuvshchika. Vol.1. Moskva,
Gos.sauchno-tekhn.izd-vo lit-ry po legkoi promyshl. 1958. 540 p.
(MIRA 12:4)

1.Gosudarstvennaya Ordona Lenina i Ordona Trudovogo Krasnogo Znameni
obuvnaya fabrika "Skorokhod" imeni Ya.Kalinina (for Zalcharov, Blago-
vestov, Strongina, Shmidt, Zuyev, Kosarev, Stepanov, Rann, Pevzner,
Veynberg, Turbin, Smirnova, Bugoslavskaya, Gamova, Khanin).
(Shoe manufacture)

SHARPATYY, V. A.; APTEKAR', Ye.L.; ZAKATOVA, N.V.; PRAVEDNIKOV, A.N.

Radiolysis of polyamides. Dokl. AN SSSR 156 no. 3:626-629
'64. (MIRA 17:5)

1. Fiziko-khimicheskiy institut im. L.Ya.Karpova. Predstavлено
akademikom S.S.Medvedevym.

ACCESSION NR: AP4038527

S/0020/64/156/003/0626/0629

AUTHORS: Sharpaty*, V.A.; Aptekar', Ye.L.; Zakatova, N.V.; Pravednikov, A.N.

TITLE: Radiolysis of polyamides

SOURCE: AN SSSR. Doklady*, v. 156, no. 3, 1964, 626-629

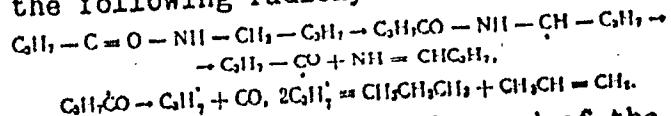
TOPIC TAGS: polyamide, radiolysis, mechanism, kinetics, radical radiolysis product, EPR method, radical mechanism, molecular cleavage, carbon hydrogen bond rupture, butyricbutyroamide, chromophoric group

ABSTRACT: This study was conducted to obtain information about the initial stages of the radiolysis of the polyamides $-\text{CONH}(\text{CH}_2)_n\text{CONH}(\text{CH}_2)_m-$ or $-\text{CONH}(\text{CH}_2)_n\text{NHCO}(\text{CH}_2)_m\text{CONH}$ (where n and m can be 4 to 10) and their low molecular analogs. CO and H₂ are formed on radiolysis of polyamides, with the formation of H₂ being independent of radiolysis temperature and proportional to the dosage. The nature and kinetics of the accumulation of radical radiolysis products were studied by the EPR method. The yield of accumulated radicals is almost independent of the type of sample (resin or fiber) or of radiolysis temperature, and increases with the number of methyl groups in

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ACCESSION NR: AP4038527

the polymer chain. The radical $\text{CONHC}^{\bullet}\text{HC}^{\bullet}\text{H}_2$ is presumed to be formed by rupture of the C-H bond in the methylene groups. The atomic hydrogen reacts with the polymeric material pulling away a hydrogen atom from the α -methylene bonds. On illumination with visible light for 15-20 minutes the EPR spectrum changes sharply, the sample coloring intensity is increased and no gas is evolved. Further illumination has no effect. Apparently the radical formed also exists as $\text{CH}_2\text{CONHCH=CHCH}_2$ with the number of the chromophoric groups being retained but rearranged. Mass spectrometric analysis of the radiolysis products of butyroamide of butyric acid led to the assumption of the following radiolysis scheme:



Since in the radiolysis of the polyamides and of the low molecular analog the amount of H_2 exceeds that of CO, and the amount of cross-linkage does not cover the difference between the two, it was concluded that H_2 is formed during radiolysis by the radical mechanism and by molecular cleavage from two adjacent carbon atoms or from the

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ACCESSION NR: AP4038527

nitrogen and carbon atoms near the carbonyl group. Thus the processes of H₂ and of CO formation during the radiolysis of polyamides are independent to some degree. "The authors thank M.K. Dobrokhotov, A.V. Sharov, D.M. Margolin, B.V. Maslova and K.G. Yanov for help in the work." Orig. art. has: 1 table, 4 figures and 1 equation.

ASSOCIATION: Fiziko-khimicheskiy institut im. L. Ya Karpova (Physical Chemical Institute)

SUBMITTED: 18Dec63

ENCL: 00

SUB CODE: NP, OC

NR REF SOV: 001

OTHER: 005

Card 3/3

KHOLODOVA, Yu.D.; SHARFATYY, V.A.; ZAKATOVA, N.V.

Radiation cross-linking of polyelectrolytes based on polyacrylamide.
(MIEA 18,9)
Vysokom. zased. 7 no. 51795-801 My '65.

1. Institut fiziologii AN UkrSSR i Fiziko-khimichesk'y institut
imeni I.Ya.Karpova, Moskva.

SLAIS, Jaroslav; technicka spoluprace ZAKAVCOVA, V.

Histological demonstration of thrombocytes and of their accumulations.
Cesk. morf. 10 no.4:421-426 '62.

1. Biologicky ustav CSAV v Praze, reditel: akad. J. Malek a Siklur
patologicko-anatomicky ustav lekarske fakulty KU v Plzni, prednosta:
prof. Dr. J. Vanek.

(BLOOD PLATELETS)

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963510009-7

ZAKAVEC, O.

"Gas Exhaust in Arc Welding." p. 169, Praha, Vol. 2, no. 4, 1954. "National Conference on
Steam Boilers and Turbines." p. 175, Praha, Vol. 2, no. 4, 1954.
SO: East European Accessions List, Vol. 3, No. 9, September 1954, Lib. of Congress

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963510009-7"

ZAKAVEC, O.

Precision welding. p. 382.

STROJIRENSTVI. (Ministerstvo tezkeho strojirenstvi, Ministerstvo prumysloho
strojirenstvi a Ministerstvo automobiloveho prumyslu a zemedelskyh stroju) Praha,
Czechoslovakia. Vol. 9, no. 5, May 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, no. 10, Oct, 1959. Unclassified.

ZAKAVEC, O.

Control in resurfacing edges of punching dies by welding. p. 24.

ZVARANIE. (Ministerstvo hutneho prumyslu a rudnych bani a Ministerstvo strojarstva)
Bratislava, Chechoslovakia, Vol. 8, No. 1, Jan. 1959

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 7, July 1959
UNCL

ZAKAVEC, Oldrich

Principles of manual electric-arc slag welding.
Zvar sbor 9 no.4:462-470 '60

1. Kdynske strojirny, n.p., Kdyné.

ZAKAYDAKOV, A.

27-6-13/29

AUTHOR: Zakaydakov, A., Laboratory Supervisor.

TITLE: Model of a Transparent Plunger Pair (Maket prozrachnoy plunzhernoy pary)

PERIODICAL: Professional'no Tekhnicheskoye Obrazovaniye, 1957, Nr. 6(145),
pp 19-20 (USSR)

ABSTRACT: During his lectures on "The fuel system of high-compression engines", the author noticed that some students had difficulties in understanding the work of the plunger pair. He therefore built a transparent model of a plunger pair for demonstration purposes. He describes the method of making such transparent models taking as an example the fuel pumps of different engines. The article contains 4 drawings on the subject.

ASSOCIATION: Moscow Institute of Mechanization and Elektrification of Agriculture (Moskovskiy Institut Mekhanizatsii i elektrifikatsii sel'skogo khozyaistva).

AVAILABLE: Library of Congress

Card 1/1

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963510009-7

ZAKAYDAKOV, A.

Making small cutaway models. Prof.-tekhn.oibr. 15 no.9:20-22 8 '58.
(MIRA 11:11)

(Engineering models)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963510009-7"

AUTHOR:

Zakaydakov, A.

SOV-27-58-9-16/28

TITLE:

Production of Small Crosscut Models (Izgotovleniye melkikh razreznykh modeley)

PERIODICAL:

Professional'no-tehnicheskoye obrazovaniye, 1958, Nr 9,
pp 20 - 23 (USSR)

ABSTRACT:

The author advocates the production of crosscut models from discarded machine parts for demonstration purposes. He distinguished between level and step-shaped models, and gives detailed description on the production process.
There are 4 diagrams.

1. Machine tools--Applications

Card 1/1

USSR/Human and Animal Morphology (Normal and Pathological) Nervous S
System.

Abs Jour : Ref Zhur - Biol., No 7, 1958, No 51217

Author : Zekayev A.A.
Inst : Not Given
Title : On the Problem of Innervation of Lungs in Dogs (Experimental-
Morphological Investigation).

Orig Pub : Tr. Stalingradsk. med. in-ta, 1957, 25, 183-190

Abstract : Lungs are innervated by semilunar nodes of the solar plexus
of the opposite analogous side. After resection of the
stomach and subdiaphragmatic vagotomy, retrograde changes are
observed in the nerve clusters which affirm the position of
Kondrat'yov (Sb. chair of normal anatomy of the Odessa Medical
Institute, 1940, 102-104) concerning the presence of "short
tracts" of innervation between organs of distant and near
functions.

* STALINNBAISKOGO GOUPARSTVENNOGO MEDITSINSKOGO INSTITUTA
Card : 1/1 IMENI AZUALI DAN-SINO.

"APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963510009-7

ETINGEN, L.Ye.; ZAKAYEV, A.A.

Metastasis of cancer into the ovary. Vop. onk. 6 no. 10:74-76 0 '60.
(MIHA 14:1)

(OVARIES—CANCER)

APPROVED FOR RELEASE: 03/15/2001

CIA-RDP86-00513R001963510009-7"

ZAKYDAKOV, A.A.

Equipping a mechanical engineering study room with sectional
models. Politekh.obuch. no.9:25-29 8 '59. (MIRA 12:12)
(Machinery--Models)

ZAKAEV, B.

Razvitiye radiotransliatsionnoi seti v raione i zadachi rabotnikov radiofiksatsii. [The development in radio rebroadcasting network in a region and the tasks of radio workers]. (Vestnik sviazi. Pochta. 1947, p. 7-8).

DLC: HE7.744

SO: Soviet Transportation and Communications. A Bibliography. Library of Congress, Reference Department, Washington, 1952, Unclassified.